

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
7 February 2002 (07.02.2002)

PCT

(10) International Publication Number
WO 02/10587 A1

(51) International Patent Classification⁷: **F02P 23/00,**
F02M 35/10

(74) Agents: **OBERHOLTZER, Steven, L.** et al.; Brinks
Hofer Gilson & Lione, P.O. Box 10395, Chicago, IL 60610
(US).

(21) International Application Number: PCT/US01/23482

(81) Designated States (*national*): DE, GB, JP, US.

(22) International Filing Date: 26 July 2001 (26.07.2001)

(84) Designated States (*regional*): European patent (AT, BE,
CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC,
NL, PT, SE, TR).

(25) Filing Language: English

(26) Publication Language: English

Published:

— with international search report

(30) Priority Data:
60/221,062 27 July 2000 (27.07.2000) US

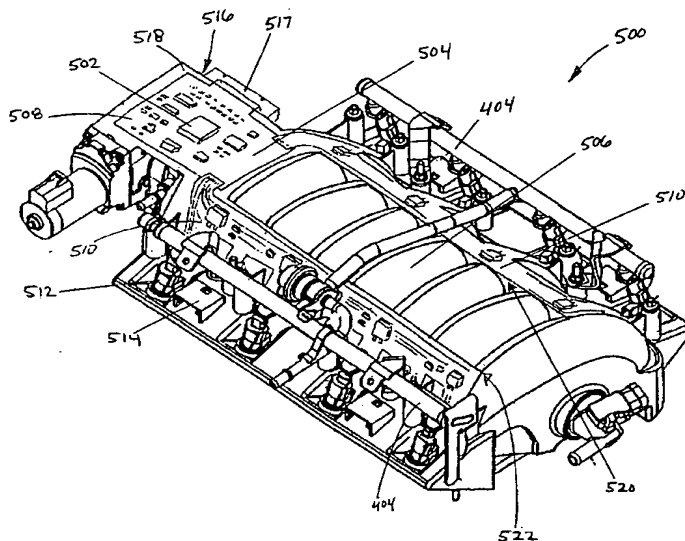
For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(71) Applicant (*for all designated States except US*): **VISTEON GLOBAL TECHNOLOGIES, INC.** [US/US];
Suite 728, Parklane Towers East, One Parklane Boulevard,
Dearborn, MI 48126 (US).

(72) Inventor; and

(75) Inventor/Applicant (*for US only*): **GLOVATSKY, Andrew, Z.** [US/US]; 44851 Partridge Drive, Plymouth, MI 48170 (US).

(54) Title: INTEGRATED POWERTRAIN CONTROL SYSTEM FOR LARGE ENGINES



(57) **Abstract:** An integrated manifold assembly (500) for routing electrical signals in an internal combustion engine is disclosed. The assembly includes an air-intake manifold (506) for drawing fresh air into the internal combustion engine, a main circuit portion (508) fixable to the air-intake manifold (506) of the internal combustion engine, a plurality of circuit runner portions (510) extending from the main circuit portion (508) for interconnecting the main circuit portion (508) with a plurality of engine components (512, 514), and a heat sink (517) affixed to the air-intake manifold (506) and in contact with at least one of the a main circuit portion (508) and the plurality of circuit runner portions (510) for dissipating heat generated in the circuit portions.